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1   Communications of the ACM: Volume 51 Issue 8

August 2008   issue   Volume 51 Issue 8

Publisher: ACM

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Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 0,   Citation Count: 0

2   A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis
December   ACM Computing Surveys (CSUR),   Volume 36 Issue 4
2004
Publisher: ACM

Full text available: ▦ pdf(517.77   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 328,   Downloads (12 Months): 2294,   Citation Count: 23

Distributed computer architectures labeled "peer-to-peer" are designed for the
sharing of computer resources (content, storage, CPU cycles) by direct exchange,
rather than requiring the intermediation or support of a centralized server or
authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

3   Models and issues in data stream systems

Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom
June   PODS '02: Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART
2002   symposium on Principles of database systems
Publisher: ACM

Full text available: ▦ pdf(257.79   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 179,   Downloads (12 Months): 723,   Citation Count: 178

In this overview paper we motivate the need for and research issues arising from a
new model of data processing. In this model, data does not take the form of
persistent relations, but rather arrives in multiple, continuous, rapid, time-varying
data ...

4   Bridging the digital divide: storage media + postal network = generic high-
bandwidth communication

Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang,
Arvind Krishnamurthy
May   ACM Transactions on Storage (TOS),   Volume 1 Issue 2
2005
Publisher: ACM

Full text available: ▦ pdf(748.97
KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21,   Downloads (12 Months): 179,   Citation Count: 0

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

5 Specification and implementation of exceptions in workflow management systems

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi
September 1999   ACM Transactions on Database Systems (TODS), Volume 24 Issue 3
Publisher: ACM

Full text available: pdf(250.40 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 278, Citation Count: 19

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

6 Synchronization in multimedia data retrieval

Anna Haj Ha•, Cindy X. Xue
January 1997   International Journal of Network Management, Volume 7 Issue 1
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(487.64 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 88, Citation Count: 1

Synchronization of multiple medium streams in real time has been recognized as one of the most important requirements for multimedia applications based on broadband high-speed networks. This article presents a complete synchronization scheme for distributed ...

7 Optimistic replication

Yasushi Saito, Marc Shapiro
March   ACM Computing Surveys (CSUR),   Volume 37 Issue 1
2005
Publisher: ACM

Full text available: pdf(656.72 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 113,   Downloads (12 Months): 858,   Citation Count: 8

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

8 Publicly verifiable ownership protection for relational databases

Yingjiu Li, Robert Huijie Deng
March   ASIACCS '06: Proceedings of the 2006 ACM Symposium on Information,
2006   computer and communications security
Publisher: ACM

Full text available: pdf(332.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 151,   Citation Count: 0

Today, watermarking techniques have been extended from the multimedia context to relational databases so as to protect the ownership of data even after the data are published or distributed. However, all existing watermarking schemes for relational databases ...

Keywords: certificate, ownership protection, public verifiability, relational database, watermark

9 Designing an inductive data stream management system: the stream mill experience

Hetal Thakkar, Barzan Mozafari, Carlo Zaniolo
March   SSPS '08: Proceedings of the 2nd international workshop on Scalable stream
2008   processing system
Publisher: ACM

Full text available: pdf(321.81 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 14,   Citation Count: 0

There has been much recent interest in on-line data mining. Existing mining algorithms designed for stored data are either not applicable or not effective on data streams, where real-time response is often needed and data characteristics change frequently. ...

Keywords: data stream mining language, data stream mining system, integration of online mining in a DSMS

10 Securing the drop-box architecture for assisted living

Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee
November 2006   FMSE '06: Proceedings of the fourth ACM workshop on Formal methods in security
Publisher: ACM

Full text available: pdf(490.78 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 96,   Citation Count: 1

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better ...

Keywords: assisted living, formal methods, formal verification, home health monitoring, security protocol verification

11 BITPEER: continuous subspace skyline computation with distributed bitmap indexes

Katerina Fotiadou, Evaggelia Pitoura
March 2008   DaMaP '08: Proceedings of the 2008 international workshop on Data management in peer-to-peer systems
Publisher: ACM

Full text available: pdf(406.47 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 6,   Citation Count: 0

In this paper, we propose a bitmap approach for efficient subspace skyline computation in a distributed setting. Our approach computes extended skylines which have been shown to include all points necessary for computing the skyline at any subspace. ...

12 Partition-based lazy updates for continuous queries over moving objects

Yu-Ling Hsueh, Roger Zimmermann, Haojun Wang, Wei-Shinn Ku
November   GIS '07: Proceedings of the 15th annual ACM international symposium
2007   on Advances in geographic information systems
Publisher: ACM

Full text available: pdf(629.93 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 63,   Citation Count: 0

Continuous spatial queries posted within an environment of moving objects produce
as their results a time-varying set of objects. In the most ambitious case both
queries and data objects are dynamic, making it very challenging to find an efficient
query ...

Keywords: mobile computing and location-based services

13 Communications of the ACM: Volume 51 Issue 3

March   issue   Volume 51 Issue 3
2008
Publisher: ACM

Full text available: pdf(7.56 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 98,   Downloads (12 Months): 483,   Citation Count: 0

14 Communications of the ACM: Volume 51 Issue 5

May   issue   Volume 51 Issue 5
2008
Publisher: ACM

Full text available: pdf(7.28 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 355,   Downloads (12 Months): 355,   Citation Count: 0

15 Communications of the ACM: Volume 51 Issue 1

January   issue   Volume 51 Issue 1
2008
Publisher: ACM

Full text available: pdf(5.97 MB) digital edition   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 908,   Downloads (12 Months): 2862,   Citation Count: 0

16 Representing and querying XML with incomplete information

Serge Abiteboul, Luc Segoufin, Victor Vianu
March   ACM Transactions on Database Systems (TODS),   Volume 31 Issue 1
2006
Publisher: ACM

Full text available: pdf(685.60   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 132,   Citation Count: 1

We study the representation and querying of XML with incomplete information. We
consider a simple model for XML data and their DTDs, a very simple query language,
and a representation system for incomplete information in the spirit of the
representations ...

Keywords: Incomplete information, XML

17 Digital rights management in a 3G mobile phone and beyond

Thomas S. Messerges, Ezzat A. Dabbish
October   DRM '03: Proceedings of the 3rd ACM workshop on Digital rights
2003   management
Publisher: ACM

Full text available: pdf(306.59   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 43,   Downloads (12 Months): 310,   Citation Count: 2

In this paper we examine how copyright protection of digital items can be securely
managed in a 3G mobile phone and other devices. First, the basic concepts,
strategies, and requirements for digital rights management are reviewed. Next, a
framework for ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital
rights management, embedded system, key management, mobile phone, open
mobile alliance, security

18 An authorization model for temporal and derived data: securing information
portals

Vijayalakshmi Atluri, Avigdor Gal
February   ACM Transactions on Information and System Security (TISSEC),
2002   Volume 5 Issue 1
Publisher: ACM

Full text available: pdf(406.85   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 112,   Citation Count: 8

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. ...

Keywords: Access control, authorization administration, derived data, temporal data

19 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham
June   ACM Transactions on Database Systems (TODS),   Volume 29 Issue 2
2004
Publisher: ACM

Full text available: pdf(927.23 KB)   Additional Information: full citation, appendices and supplements, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 32,   Downloads (12 Months): 197,   Citation Count: 1

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

20 MobiPass: a passport for mobile business

Robert Steele, Will Tao
February 2007 Personal and Ubiquitous Computing,   Volume 11 Issue 3
Publisher: Springer-Verlag

Full text available: pdf(302.28 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 30,   Downloads (12 Months): 59,   Citation Count: 0

While pervasive computing provides a potentially vast business opportunity for many industry participants, it also carries challenges along with it. In this paper, a passport-based architecture has been proposed to convert this unpredictable, highly ...

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